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TITLE: Soluble CR1 derivatives

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CLAIMS:

We claim:

1. A DNA molecule encoding a soluble polypeptide comprising no more than three short consensus repeats (SCR) of long homologous repeat A of Complement Receptor 1, wherein the DNA molecule encodes SCR3 and at least one repeat selected from the group consisting of SCR1, SCR2, and SCR4.
2. A DNA molecule encoding a soluble polypeptide comprising no more than one short consensus repeat (SCR) of long homologous repeat A of Complement Receptor 1, wherein the DNA molecule encodes SCR3.
3. A vector comprising a DNA molecule according to claim 1.
4. A vector comprising a DNA molecule according to claim 2.
5. A host cell comprising a DNA molecule according to claim 1.
6. A host cell comprising a DNA molecule according to claim 1.
7. A host cell according to claim 5, wherein the host cell is a bacterium.
8. A host cell according to claim 6, wherein the host cell is a bacterium.
9. A method of producing a soluble polypeptide that can inhibit complement activation, comprising:  
expressing in a host cell a DNA molecule encoding a soluble polypeptide comprising no more than three short consensus repeats (SCR) of long homologous repeat A of Complement Receptor 1, wherein the DNA molecule encodes SCR3 and at least one repeat selected from the group consisting of SCR1, SCR2, and SCR4 to produce the soluble polypeptide; and  
harvesting the soluble polypeptide.
10. A method of producing a soluble polypeptide that can inhibit complement activation, comprising:  
expressing in a host cell a DNA molecule encoding a soluble polypeptide comprising a DNA molecule encoding a soluble polypeptide comprising no more than one short consensus repeat (SCR) of long homologous repeat A of Complement Receptor 1, wherein the DNA molecule encodes SCR3.
11. A method according to claim 9, wherein the host cell is a bacterium.
12. A method according to claim 10, wherein the host cell is a bacterium.
13. A method according to claim 11, wherein the bacterium is E. coli.
14. A method according to claim 12, wherein the bacterium is E. coli.